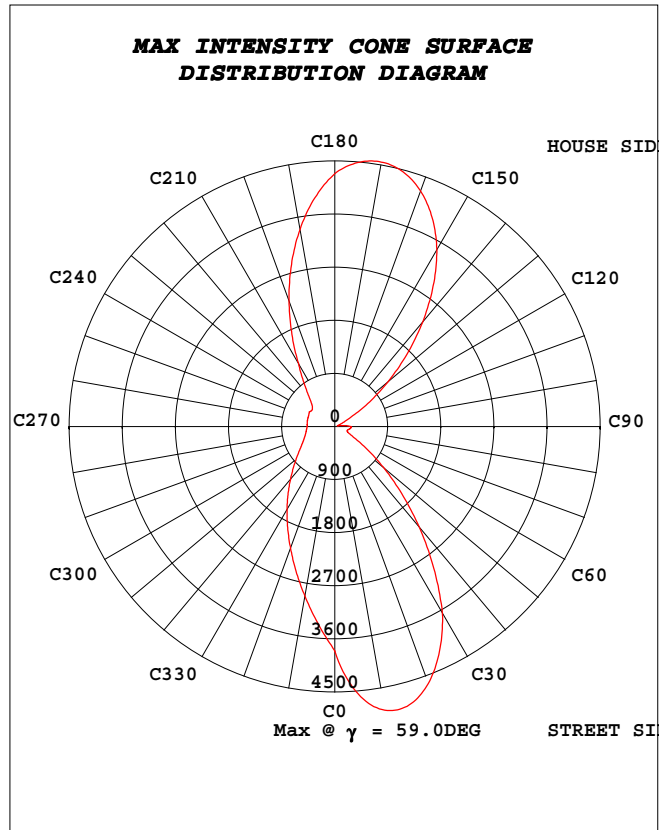
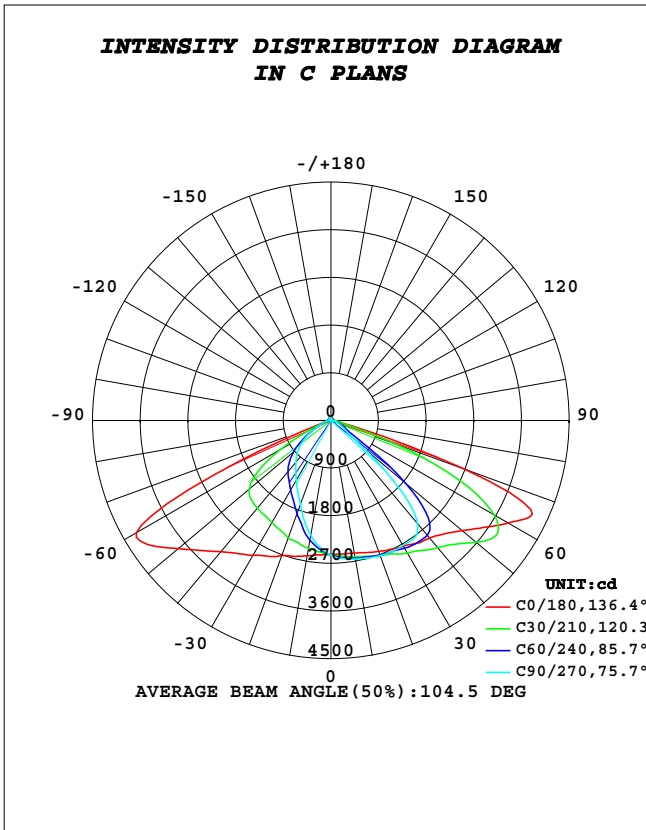


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|---|--------------------|--|
| Test:U:36.00V I:1.660A P:60.00W PF:1.000 Lamp Flux:8696.54x1 lm | | |
| NAME: 96PCS-60W | TYPE:CREE 3030 LED | |
| MFR.: HITECHLED | | |
| | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 144.94 lm/W | | | |
|------------------|-------------|-----------------------------------|----------|-----------------------|------|
| MODEL | HT-SWD-1H60 | Imax(cd) | 4288 | η street_up(%) | 1.7 |
| NOMINAL POWER(W) | 60 | LOR(%) | 100.0 | η street_down(%) | 54.5 |
| RATED VOLTAGE(V) | 36 | TOTAL FLUX(lm) | 8697 | η house_up(%) | 1.2 |
| NOMINAL FLUX(lm) | 8696.54 | MAXIMUM @(C, γ) | 180,59.0 | η house_down(%) | 42.6 |
| LAMPS INSIDE | 1 | η up(%) | 2.9 | 76 FLASHAREA(m2) | |
| TEST VOLTAGE(V) | 36 | η down(%) | 97.1 | SLI | |



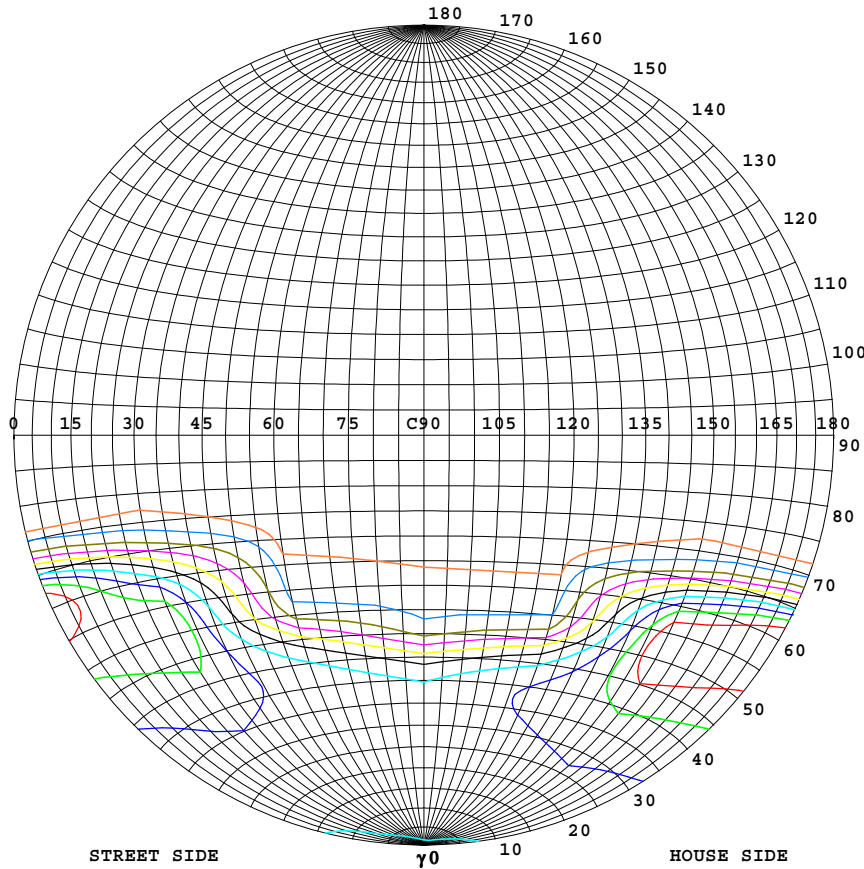
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

| | | |
|---|--------------------|--|
| Test:U:36.00V I:1.660A P:60.00W PF:1.000 Lamp Flux:8696.54x1 lm | | |
| NAME: 96PCS-60W | TYPE:CREE 3030 LED | |
| MFR.: HITECHLED | | |
| | | |



Classification:

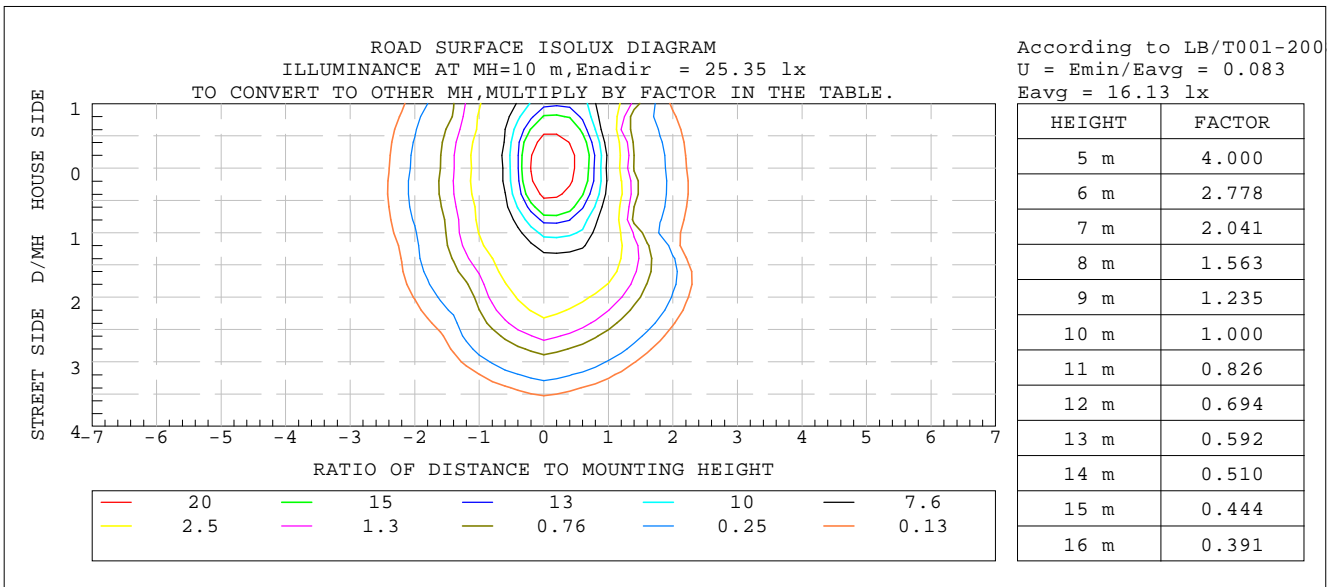
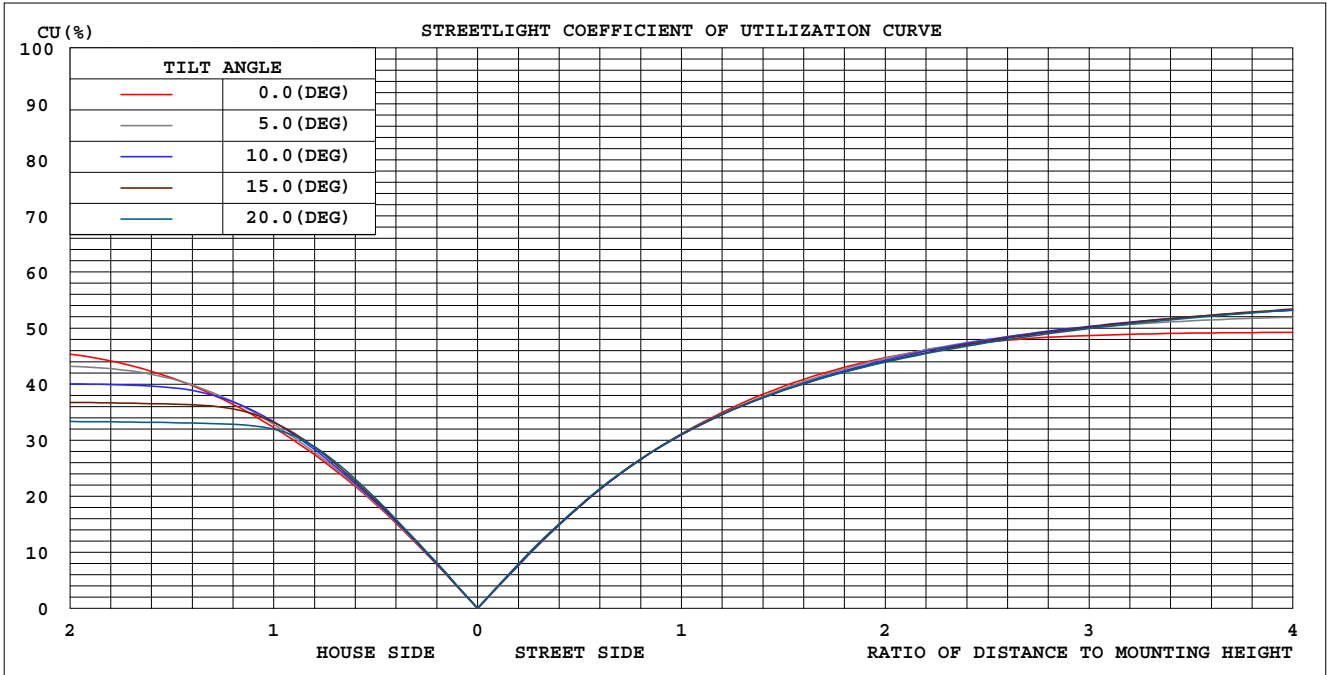
IES:Type V - Short
 CIE:Broad - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:18.61cd/klm
 Max.At90:6.314cd/klm
 Max.80-90:18.61cd/klm
 NRB 5101:Limited[1.5%]

| ISOCANDELA DIAGRAM | |
|------------------------|------|
| UNIT | cd |
| I _{max} =100% | 4288 |
| — 90% | 3859 |
| — 80% | 3431 |
| — 70% | 3002 |
| — 60% | 2573 |
| — 50% | 2144 |
| — 40% | 1715 |
| — 30% | 1286 |
| — 20% | 858 |
| — 10% | 429 |
| — 5% | 214 |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

ZONAL FLUX DIAGRAM

| | | |
|---|--------------------|--|
| Test:U:36.00V I:1.660A P:60.00W PF:1.000 Lamp Flux:8696.54x1 lm | | |
| NAME: 96PCS-60W | TYPE:CREE 3030 LED | |
| MFR.: HITECHLED | | |
| | | |

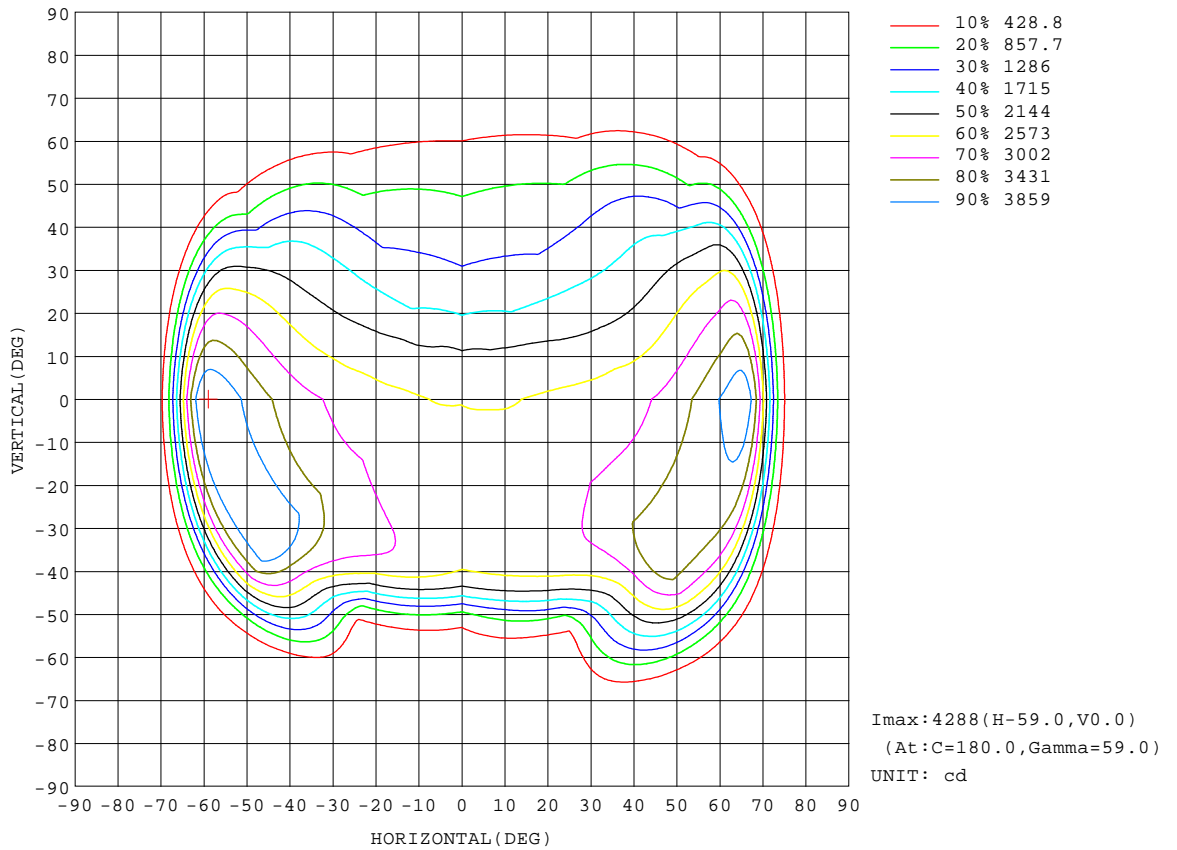
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 2542 | 2627 | 2660 | 2678 | 2597 | 2375 | 2202 | 2325 | 0- 10 | 240.5 | 240.5 | 2.76,2.76 |
| 20 | 2634 | 2713 | 2719 | 2825 | 2716 | 2119 | 1690 | 2057 | 10- 20 | 698.0 | 938.5 | 10.8,10.8 |
| 30 | 2743 | 2837 | 2723 | 3018 | 2938 | 1877 | 1317 | 1777 | 20- 30 | 1114 | 2052 | 23.6,23.6 |
| 40 | 2899 | 2983 | 2543 | 3246 | 3239 | 1714 | 1035 | 1580 | 30- 40 | 1508 | 3560 | 40.9,40.9 |
| 50 | 3241 | 2704 | 748.5 | 2807 | 3767 | 1471 | 778.6 | 1430 | 40- 50 | 1773 | 5334 | 61.3,61.3 |
| 60 | 3876 | 1946 | 266.9 | 1726 | 4245 | 777.5 | 430.5 | 1080 | 50- 60 | 1694 | 7028 | 80.8,80.8 |
| 70 | 2657 | 719.9 | 140.5 | 213.0 | 365.0 | 189.5 | 175.0 | 391.8 | 60- 70 | 1113 | 8141 | 93.6,93.6 |
| 80 | 143.0 | 126.1 | 82.92 | 83.01 | 103.9 | 70.83 | 89.23 | 120.9 | 70- 80 | 235.6 | 8377 | 96.3,96.3 |
| 90 | 54.91 | 34.77 | 13.70 | 19.67 | 51.70 | 27.73 | 24.56 | 42.34 | 80- 90 | 68.96 | 8446 | 97.1,97.1 |
| 100 | 50.59 | 22.71 | 12.52 | 20.09 | 53.51 | 30.79 | 22.02 | 31.56 | 90-100 | 31.62 | 8477 | 97.5,97.5 |
| 110 | 55.85 | 26.60 | 16.01 | 23.08 | 55.72 | 36.25 | 27.77 | 37.77 | 100-110 | 33.16 | 8510 | 97.9,97.9 |
| 120 | 51.23 | 31.14 | 21.00 | 27.89 | 50.82 | 42.88 | 34.86 | 44.37 | 110-120 | 35.26 | 8546 | 98.3,98.3 |
| 130 | 48.63 | 38.50 | 27.65 | 31.79 | 53.93 | 46.84 | 43.30 | 51.71 | 120-130 | 35.80 | 8581 | 98.7,98.7 |
| 140 | 51.63 | 45.05 | 34.70 | 36.95 | 57.81 | 50.52 | 49.75 | 56.44 | 130-140 | 34.89 | 8616 | 99.1,99.1 |
| 150 | 57.65 | 51.48 | 42.50 | 43.76 | 61.88 | 55.43 | 52.99 | 58.64 | 140-150 | 31.47 | 8648 | 99.4,99.4 |
| 160 | 62.43 | 57.80 | 50.66 | 50.67 | 65.17 | 60.67 | 57.82 | 61.64 | 150-160 | 25.61 | 8673 | 99.7,99.7 |
| 170 | 65.65 | 62.76 | 57.63 | 57.88 | 67.39 | 64.26 | 61.73 | 63.91 | 160-170 | 17.05 | 8690 | 99.9,99.9 |
| 180 | 68.72 | 66.06 | 62.36 | 63.52 | 68.74 | 65.97 | 62.45 | 63.41 | 170-180 | 6.074 | 8697 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ISOCANDELA DIAGRAM

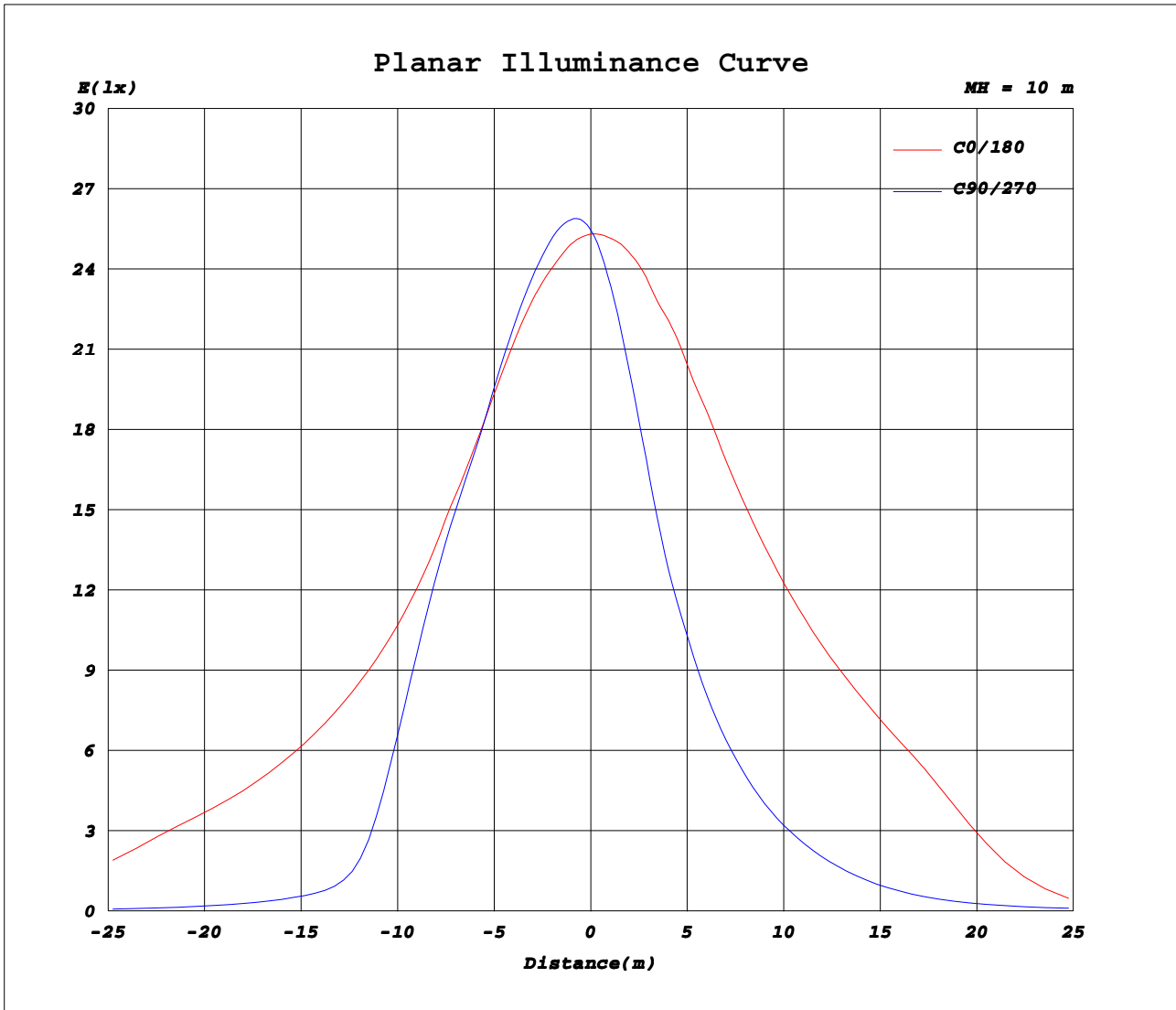
| | | |
|---|--------------------|--|
| Test:U:36.00V I:1.660A P:60.00W PF:1.000 Lamp Flux:8696.54x1 lm | | |
| NAME: 96PCS-60W | TYPE:CREE 3030 LED | |
| MFR.: HITECHLED | | |
| | | |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------|--|
| Test:U:36.00V I:1.660A P:60.00W PF:1.000 Lamp Flux:8696.54x1 lm | | |
| NAME: 96PCS-60W | TYPE:CREE 3030 LED | |
| MFR.: HITECHLED | | |
| | | |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0 | 2531 | 2536 | 2546 | 2547 | 2547 | 2533 | 2531 | 2536 | 2546 | 2547 | 2547 | 2533 | | | | | | | |
| 5 | 2531 | 2574 | 2602 | 2618 | 2624 | 2596 | 2550 | 2492 | 2442 | 2405 | 2429 | 2464 | | | | | | | |
| 10 | 2542 | 2612 | 2642 | 2660 | 2683 | 2673 | 2597 | 2452 | 2299 | 2202 | 2262 | 2388 | | | | | | | |
| 15 | 2584 | 2656 | 2668 | 2690 | 2736 | 2756 | 2658 | 2395 | 2088 | 1958 | 2071 | 2331 | | | | | | | |
| 20 | 2634 | 2721 | 2704 | 2719 | 2797 | 2853 | 2716 | 2359 | 1880 | 1690 | 1845 | 2268 | | | | | | | |
| 25 | 2686 | 2782 | 2736 | 2737 | 2861 | 2957 | 2832 | 2285 | 1679 | 1492 | 1643 | 2169 | | | | | | | |
| 30 | 2743 | 2888 | 2787 | 2723 | 2939 | 3096 | 2938 | 2230 | 1525 | 1317 | 1480 | 2074 | | | | | | | |
| 35 | 2831 | 2999 | 2825 | 2728 | 3022 | 3264 | 3068 | 2189 | 1387 | 1167 | 1348 | 1996 | | | | | | | |
| 40 | 2899 | 3136 | 2831 | 2543 | 3002 | 3490 | 3239 | 2164 | 1264 | 1035 | 1224 | 1936 | | | | | | | |
| 45 | 3027 | 3306 | 2598 | 1866 | 2509 | 3849 | 3473 | 2126 | 1116 | 909 | 1102 | 1902 | | | | | | | |
| 50 | 3241 | 3579 | 1828 | 749 | 1384 | 4230 | 3767 | 2017 | 926 | 779 | 978 | 1883 | | | | | | | |
| 55 | 3524 | 3800 | 700 | 355 | 430 | 4133 | 4122 | 1690 | 690 | 618 | 820 | 1812 | | | | | | | |
| 60 | 3876 | 3550 | 342 | 267 | 271 | 3181 | 4245 | 1098 | 457 | 430 | 612 | 1548 | | | | | | | |
| 65 | 4193 | 2667 | 253 | 195 | 187 | 1344 | 2460 | 499 | 271 | 279 | 387 | 1075 | | | | | | | |
| 70 | 2657 | 1277 | 163 | 140 | 136 | 290 | 365 | 215 | 164 | 175 | 232 | 552 | | | | | | | |
| 75 | 439 | 307 | 124 | 113 | 100 | 153 | 147 | 122 | 114 | 112 | 145 | 262 | | | | | | | |
| 80 | 143 | 162 | 90.4 | 82.9 | 74.2 | 91.8 | 104 | 72.3 | 69.3 | 89.2 | 104 | 138 | | | | | | | |
| 85 | 95.8 | 98.6 | 69.5 | 53.8 | 34.9 | 40.5 | 63.6 | 44.9 | 38.5 | 52.2 | 60.6 | 78.7 | | | | | | | |
| 90 | 54.9 | 47.3 | 22.2 | 13.7 | 14.0 | 25.3 | 51.7 | 32.5 | 22.9 | 24.6 | 33.7 | 51.0 | | | | | | | |
| 95 | 48.5 | 28.6 | 16.0 | 13.9 | 14.2 | 24.9 | 50.4 | 33.9 | 23.6 | 25.6 | 25.8 | 34.8 | | | | | | | |
| 100 | 50.6 | 28.7 | 16.7 | 12.5 | 14.3 | 25.9 | 53.5 | 36.6 | 25.0 | 22.0 | 27.2 | 36.0 | | | | | | | |
| 105 | 54.1 | 30.5 | 17.8 | 13.9 | 15.8 | 28.0 | 56.6 | 39.8 | 27.6 | 24.6 | 29.3 | 39.0 | | | | | | | |
| 110 | 55.9 | 33.3 | 19.9 | 16.0 | 17.8 | 28.4 | 55.7 | 41.6 | 30.9 | 27.8 | 32.5 | 43.1 | | | | | | | |
| 115 | 56.1 | 36.1 | 22.6 | 18.3 | 20.0 | 30.9 | 48.3 | 44.8 | 34.3 | 31.2 | 36.2 | 46.9 | | | | | | | |
| 120 | 51.2 | 36.3 | 25.9 | 21.0 | 22.9 | 32.9 | 50.8 | 47.5 | 38.3 | 34.9 | 40.6 | 48.1 | | | | | | | |
| 125 | 47.1 | 40.0 | 29.7 | 24.2 | 25.7 | 33.9 | 52.6 | 48.3 | 42.0 | 39.2 | 45.2 | 51.2 | | | | | | | |
| 130 | 48.6 | 43.5 | 33.5 | 27.6 | 28.5 | 35.0 | 53.9 | 48.8 | 44.8 | 43.3 | 49.3 | 54.1 | | | | | | | |
| 135 | 49.9 | 46.6 | 37.1 | 31.1 | 31.3 | 36.9 | 55.5 | 50.2 | 46.8 | 47.1 | 52.8 | 56.2 | | | | | | | |
| 140 | 51.6 | 49.5 | 40.7 | 34.7 | 34.2 | 39.8 | 57.8 | 52.9 | 48.1 | 49.8 | 55.5 | 57.4 | | | | | | | |
| 145 | 54.6 | 52.1 | 44.3 | 38.5 | 37.5 | 43.0 | 59.9 | 55.8 | 49.7 | 51.5 | 57.0 | 58.3 | | | | | | | |
| 150 | 57.6 | 54.9 | 48.0 | 42.5 | 41.2 | 46.4 | 61.9 | 58.6 | 52.3 | 53.0 | 57.8 | 59.5 | | | | | | | |
| 155 | 60.5 | 57.7 | 51.7 | 46.6 | 45.0 | 49.4 | 63.7 | 61.0 | 55.5 | 55.2 | 59.0 | 61.1 | | | | | | | |
| 160 | 62.4 | 60.3 | 55.3 | 50.7 | 49.0 | 52.3 | 65.2 | 63.0 | 58.4 | 57.8 | 60.7 | 62.6 | | | | | | | |
| 165 | 63.6 | 62.3 | 58.6 | 54.4 | 52.8 | 55.6 | 66.5 | 64.6 | 60.7 | 60.1 | 62.1 | 63.9 | | | | | | | |
| 170 | 65.6 | 64.2 | 61.3 | 57.6 | 56.6 | 59.2 | 67.4 | 66.0 | 62.6 | 61.7 | 63.1 | 64.7 | | | | | | | |
| 175 | 67.8 | 66.3 | 63.4 | 60.3 | 60.1 | 62.2 | 68.3 | 67.1 | 64.0 | 62.6 | 63.4 | 65.0 | | | | | | | |
| 180 | 68.7 | 67.5 | 64.6 | 62.4 | 62.6 | 64.4 | 68.7 | 67.5 | 64.4 | 62.5 | 62.5 | 64.3 | | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks: